

THE URBAN DISTRICT COUNCIL OF ESTON.

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EIGHTH

# ANNUAL REPORT

BY

THE MEDICAL OFFICER,

FOR THE

YEAR ENDING 31ST DECEMBER, 1905.

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Middlesbrough :

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1906.



# The Urban District Council of Eston.

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## Councillors :

|                             |                                         |
|-----------------------------|-----------------------------------------|
| ANDERSON, WILLIAM           | HUME, WM. GYMER                         |
| BELLWOOD, GEORGE (CHAIRMAN) | KELLY, REV. B.                          |
| BROWN, ROBERT               | MEABURN, M. W.                          |
| DAVIES, THOMAS              | PEACOCK, BERT.                          |
| FOX, PATRICK                | RICHARDS, A. WINDSOR<br>(VICE-CHAIRMAN) |
| GLEN, DR. JOHN              | TURNER, JOHN                            |

## Clerk :

THOMAS BELK, Solicitor, Middlesbrough.

## Surveyor and Sanitary Inspector :

C. McDERMID, Eston, R.S.O.

## Medical Officer :

GEORGE C. H. FULTON, M.B., C.M.,  
FELLOW OF THE ROYAL INSTITUTE OF PUBLIC HEALTH.

## Sanatorium :

GEORGE C. H. FULTON, M.B., C.M., Eston, Medical Officer.  
MISS FROOD, Matron.

## Collector :

ROBERT FRANKS, Normanby.



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ESTON URBAN DISTRICT COUNCIL.

EIGHTH  
ANNUAL REPORT  
OF  
THE MEDICAL OFFICER OF HEALTH.

TO THE ESTON URBAN DISTRICT COUNCIL.

GENTLEMEN,

I have the honour of submitting to you my Eighth Annual Report on the Health of Eston District during the year 1905 with an account of the Sanitary work performed.

STATISTICAL SUMMARY.

|                                               |   |   |   |   |   |   |   |              |
|-----------------------------------------------|---|---|---|---|---|---|---|--------------|
| Area of the District in acres                 | - | - | - | - | - | - | - | 2,251        |
| Estimated Population at Mid-Summer            | - | - | - | - | - | - | - | 12,500       |
| Density of Population per acre                | - | - | - | - | - | - | - | 5.55         |
| Inhabited Houses                              | - | - | - | - | - | - | - | 2,266        |
| Rateable value of District                    | - | - | - | - | - | - | - | £77,547/15 0 |
| Births                                        | - | - | - | - | - | - | - | 392          |
| Birth-rate                                    | - | - | - | - | - | - | - | 31.12        |
| Deaths                                        | - | - | - | - | - | - | - | 199          |
| Death-rate                                    | - | - | - | - | - | - | - | 15.12        |
| Zymotic Deaths                                | - | - | - | - | - | - | - | 23           |
| Zymotic Death-rate                            | - | - | - | - | - | - | - | 1.84         |
| Infantile Mortality                           | - | - | - | - | - | - | - | 61           |
| Ratio of Infantile Deaths to Births per 1,000 | - | - | - | - | - | - | - | 156.7        |
| Infectious cases notified                     | - | - | - | - | - | - | - | 161          |
| Infectious cases isolated at the Sanatorium   | - | - | - | - | - | - | - | 88           |

VITAL STATISTICS.

During the year the births of 392 children have been registered, of these 202 were boys and 179 girls. The total gives a rate of 31·12 per 1,000 per annum of the estimated population. Last year the birth-rate was 31·44 per 1,000 of the estimated population.

MORTAL STATISTICS.

During the year ending December 31st, 1905, 199 deaths were registered in Eston Urban Sanitary District. The death rate was equal to 15·12 per 1,000 of the population estimated to the middle of the year. Last year 204 deaths were registered, the death rate being equal to 16·31 per 1,000 per annum of the estimated population.

TABLE A.

Showing the Birth and Death Rates of Eston, 1896 to 1895 inclusive :—

|                                                                         |   |      |   |   |        |   |       |                                                    |
|-------------------------------------------------------------------------|---|------|---|---|--------|---|-------|----------------------------------------------------|
| Rates per 1,000 of population for 1905 were: Births 31·12, Deaths 15·12 |   |      |   |   |        |   |       | Average<br>Death<br>rate for<br>10 years<br>16·94. |
| „                                                                       | „ | 1904 | „ | „ | 31·44, | „ | 16·31 |                                                    |
| „                                                                       | „ | 1903 | „ | „ | 32·99, | „ | 15·76 |                                                    |
| „                                                                       | „ | 1902 | „ | „ | 35·07, | „ | 17·03 |                                                    |
| „                                                                       | „ | 1901 | „ | „ | 38·21, | „ | 14·37 |                                                    |
| „                                                                       | „ | 1900 | „ | „ | 31·60, | „ | 19·29 | Average<br>Birth<br>rate for<br>10 years<br>34·87. |
| „                                                                       | „ | 1899 | „ | „ | 35·31, | „ | 20·94 |                                                    |
| „                                                                       | „ | 1898 | „ | „ | 37·63, | „ | 17·72 |                                                    |
| „                                                                       | „ | 1897 | „ | „ | 38·99, | „ | 16·45 |                                                    |
| „                                                                       | „ | 1896 | „ | „ | 36·37, | „ | 16·45 |                                                    |

B.—Table showing the Number of Deaths from Zymotic Diseases  
in the Ten Years 1896 to 1905.

|                                                                    | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 |
|--------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|
| Smallpox ... ..                                                    | ...  | 1    | 6    | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
| Measles ... ..                                                     | 21   | 2    | 1    | 17   | ...  | ...  | 8    | 1    | 11   | 8    |
| Scarlet Fever ... ..                                               | 3    | 1    | ..   | ...  | 3    | ...  | 1    | ...  | 2    | ...  |
| Diphtheria ... ..                                                  | 3    | ...  | ..   | ...  | 3    | ...  | 1    | 2    | ...  | 2    |
| Whooping Cough ... ..                                              | 7    | 9    | 5    | 2    | 13   | ...  | 7    | 3    | 2    | 2    |
| Fever { Typhus ... ..<br>Enteric ... ..<br>Simple Continued ... .. | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |
|                                                                    | 4    | 2    | 11   | 3    | 4    | 3    | 2    | 2    | 1    | 1    |
|                                                                    | ...  | 3    | 1    | 2    | ...  | ...  | 1    | ...  | 1    | ...  |
| Diarrhoea ... ..                                                   | 11   | 5    | 10   | 18   | 8    | 13   | ...  | 8    | 3    | 10   |
| Erysipelas ... ..                                                  | ..   | ...  | ...  | ...  | 1    | ...  | ...  | ..   | ...  | ...  |
| Deaths from Seven Chief<br>Zymotic Diseases ... ..                 | 49   | 23   | 34   | 43   | 29   | 16   | 22   | 16   | 20   | 23   |
| Deaths from other causes ..                                        | 127  | 153  | 161  | 215  | 211  | 145  | 179  | 178  | 184  | 176  |
| Totals for each year to the<br>District ... ..                     | 176  | 176  | 195  | 258  | 240  | 161  | 201  | 194  | 204  | 199  |
| Death-rate from Seven Chief<br>Zymotic Diseases, per 1,000         | 158  | 215  | 309  | 349  | 233  | 142  | 186  | 130  | 160  | 184  |
| Death-rate from other causes<br>per 1,000 ... ..                   | 1187 | 1430 | 1163 | 1745 | 1696 | 1295 | 1517 | 1346 | 1472 | 1328 |
| General Death-rate per 1,000                                       | 1645 | 1645 | 1772 | 2094 | 1929 | 1437 | 1703 | 1576 | 1632 | 1512 |

## MEASURES TAKEN TO PREVENT SPREAD OF INFECTIOUS DISEASES.

1st. Careful systematic inspection of the district with a view to remedying any sanitary defects likely to give rise to infectious diseases.

2nd. Visitation of your Medical Officer and Inspector of every house in which infectious disease occurs.

3rd. Free Isolation in the Sanatorium.

4th. School notification of infectious diseases, and preventing of children from infectious houses attending school.

5th. Distribution of printed precautions against the spread of infectious diseases.

6th. Disinfection of all infected houses by an Officer of the Council under the supervision of your Inspector.

7th. Gratuitous supply of disinfectants in all cases requiring them.

8th. The Council pay for Swabs taken in doubtful cases of Diphtheria sent to the Clinical Research Association, London, by the Medical Officer.

9th. Diphtheria Antitoxin used at the Sanatorium.

## PRECAUTIONS TO BE TAKEN IN A CASE OF CONSUMPTION.

Consumption is an infectious disease and therefore is preventible. Infection occurs through the sputum or spit which the sick person coughs up from the diseased lungs; when this dries it floats in the air and is inhaled by other persons.

A consumptive person who follows out the following recommendations is not only doing the best thing possible for others, but is at the same time largely increasing his own chance of recovery.

Do not swallow the sputum.

Do not spit anywhere except on to a rag or piece of paper; burn the rag or paper at once.

The sick room should be cleansed often; on the termination of the illness it should be disinfected, this will be done free of charge by the Sanitary Authority.

Dampness, darkness, dirt, and want of ventilation, favour the spread of the disease; sunlight, fresh air, and cleanliness check it.

A consumptive person should if possible occupy a separate bedroom.

## CAUSES OF DEATH.

Diseases of the Respiratory Organs. Forty-seven deaths occurred from this cause, being seventeen more than last year. Diseases of the lungs will always remain high in your district; as we have a trying changeable climate. I would strongly advise the wearing of flannel next the skin, the leading of a simpler life, and be more temperate in eating and drinking.

**Tuberculosis and Wasting** (Consumption) claims 23 victims as against 29 last year. Consumption is a preventible disease which is caused by minute living germs called "Tubercle bacilli," which usually enter the body with the air breathed. The matter which consumptive people cough or spit up contains the germs of the disease in great numbers. If this matter is spat upon the floors or the walls of any public or private place, or elsewhere, as soon as it becomes dry the germs of the disease which it contains, are blown about and float in the air, like any other minute particles of dust, and are inhaled by anybody breathing that air; or they may fall upon milk or other food, and gain access to the body with the food, so consumptives should always be careful to spit into a vessel containing water, or use a piece of rag or paper and burn it at once.

## SMALLPOX.

No case of Smallpox occurred in your district during the year. When a case does unfortunately occur, I may state the measures adopted as we have had absolute success so far since I became your Medical Officer. Whenever a case of Smallpox is notified, usually by telephone, the Medical Officer visits the patient at once and the patient is removed to our Isolation Hospital, the house is disinfected throughout, and the bedding and clothing removed and burned (we have not a steam disinfector) the contacts are quarantined and compensation paid to them (16 days) and revaccinated if they will consent. The following day the rooms are stripped of wall paper, which is removed and burnt, the contacts are visited every other day to see if any fresh cases develope; if not on the 15th or 16th day the contacts are liberated. One of the most obvious modes in the suppression of a threatened epidemic of Smallpox is promptness of action; a few days, even a few hours, may make all the difference between the suppression and extension of the disease, coincidental with the removal of the patient and the necessary disinfection, revaccination of all contacts should be proceeded with.

## SCARLET FEVER.

Eighty-three cases occurred during the year. This disease was very prevalent and continues to spread in every part of your district, due no doubt

to the mildness of the disease, want of care by parents, and cases being overlooked, missed by parents or doctor. No deaths occurred. Children who have sore throats and are sick (vomit) should be sent home from school, and a note sent to the doctor.

### MEASLES.

Occured in the early part of the year, and is responsible for eight deaths. School closure had very little effect in stamping out the disease, to be effective it must be carried out soon after the first case has occurred among the Scholars, owing to the marked infectivity of Measles before the eruption occurs and the disease can be diagnosed, the child about to be attacked and attending school would probably infect a varying number of children in the school with whom he had been in contact. If the school is closed for a fortnight, within a week from the first case or group of cases occurring, all the children infected by the initial cases will contract the disease while the school is closed, as the incubation period of Measles is only about fourteen days. The school can be re-opened at the end of the fortnight with the certainty that all children infected from the first cases would be excluded from school, and many outbreaks may in this way be very much limited or entirely stamped out—this is the only satisfactory method, but in towns like South Bank, Grangetown and Eston it cannot be always effectual, owing to the opportunities the children have of mixing together outside the school, but in rural areas, or in districts where the children attend school from several villages, this method of school closing will have good results.

### WHOOPING COUGH.

Whooping Cough should not be a fatal disease although we have 2 deaths recorded during the year. The child should be kept warm for 6 weeks. If the child is not then well it will benefit the child to give it a change of air to the sea side, mines, gas works, etc., etc. If the child is exposed before 6 weeks have elapsed (the natural duration of the disease) then the child gets Bronchitis or other complaint with the chance of a fatal result.

### ENTERIC OR TYPHOID FEVER.

Only 1 death has occurred from Enteric Fever—this is very satisfactory. I repeat the number of cases of Typhoid Fever is a true index of the sanitary state of the district. All cases of Enteric Fever are not water borne or due to milk. It may be caused by flies, in many cases when the diseased patient remains at home other persons are infected by soiled linen, &c.

## DIPHTHERIA.

We have had 53 cases of Diphtheria notified during the year ; in most cases the Bacillus was found and 20 cases were isolated at the Sanatorium. Diphtheria is an acute specific disease, epidemic and contagious, and is characterised by a membranous exudation on the mucous membrane of the throat or adjacent parts. Occasionally a wound on the surface of the body may be the seat of diphtheria infection. The disease is not only directly inoculable by contamination with diphtheria products, but may be indirectly conveyed by infected clothing and other external objects. It is primarily caused by a specific bacillus (Klebs-Loeffler) which is exclusively found at the seat of infection ; and yields toxins, to the absorption of which the phenomena of the disease is due. It has been a matter of observation that certain rural districts in which the surface soil is cold and humid, and where damp houses and privy and drainage nuisances abound, or where the aspect involves much exposure to cold, wet winds, particularly favour diphtheria, these conditions lower the vitality of the system, and give a good breeding ground for the bacillus to act, but in my opinion do not directly cause the disease.

There is absolutely no doubt that its dissemination is greatly assisted by the aggregation of children in our Elementary Schools. It frequently happens that on inquiries at a school where cases have occurred among the scholars reveals the fact that sore throat has been prevalent, and it is probable that such cases of sore throat are not infrequently mild cases of diphtheria and should be treated as such, or at any rate rigidly excluded from school. It is well known that the diphtheric organism will live in the throat for several weeks after complete convalescence from the disease. This has been amply proved at Eston during the year, so that I exclude all children who have suffered from diphtheria one month after convalescence is established, and during epidemics we should have periodic medical inspection of the throats of all school children. If the Government demand that a child should be educated, the Government should see that the child should run no preventable risks in contracting infectious disease at school.

## INFANTILE MORTALITY.

The term "infant" is restricted to twelve months of age. The high mortality among infants, however good their surroundings, and however intelligently maternal care is exercised, arises from many causes ; a certain proportion are premature, and cannot survive, some are born with malformations and other defects which soon terminate their existence ; others, the offspring of

weakly parents, cannot long survive, and in spite of all care, there is a large proportion who will succumb to one or other of the many ailments to which infancy is susceptible. Making due allowance for these, it may be taken that an annual death-rate amongst infants of 100 per thousand is unavoidable, and if this be granted, it follows that anything above this is preventable, although the necessary means to prevent it are so extremely difficult to apply that even in the best districts the loss of infant lives is in excess of the standard. Our infantile mortality is 156 as against 182 per thousand last year, this shows a great sacrifice of young lives, and public opinion ought to be aroused to this fact. It is a scandal and a shame that in every other department of sanitary science we have been able to do much, but infantile mortality is the black spot in our sanitary efforts, and has remained about the same for the last 20 years.

We should, by teaching Hygiene in schools, stir up public opinion in this matter. The mother is the natural guardian of the infant, and 90 per cent. of all mothers should feed their own child; their breast-milk is the most natural and suitable for their own child.

The increasing carelessness and deficient sense of responsibility among the younger women of the present day is largely the result of the general influence of our modern school system and of the literature for which schooling has set up a demand. The inclination of women for domestic service (the proportion of women in domestic service has declined from 14·2 in 1891 to 12·2 in 1901) is attributed to our compulsory education. The laws of health and domestic hygiene are taught in our secondary and other schools to a greater extent than ever before, and the ignorance on the subject is therefore due to indifference rather than to want of opportunity. It is obvious, therefore, that instruction in the subject should be compulsory in all elementary schools and not be relegated to the optional classes of continuation or secondary schools. Such instruction can only be taught properly by teachers who are themselves well grounded in its general principals, and unfortunately only a small proportion of the teachers are so qualified. It is, therefore, important that every educational authority should, without delay, give facilities for their elementary school teachers obtaining suitable instruction in elementary sanitation and in domestic and school hygiene, so that they may be qualified to impart the necessary information on those subjects to the children attending the elementary school. To get in touch, however, with the mothers of to-day and bring to their notice, in a practical manner, the proper methods of feeding and managing their children, I know of no better means than the appointment of women health visitors.

C.—Table of Population, Births, and of New Cases of Infectious Sickness coming to the knowledge of the Medical Officer of Health, during the year 1905, in the Eston Urban District; classified according to Diseases and Ages.

| Names of Localities adopted<br>for the purpose of these Statistics;<br>Public Institutions being shown<br>as separate localities | Population at<br>all Ages |                                        | Aged<br>under 5<br>or<br>over 5 | Smallpox | New cases of sickness in each locality<br>coming to the knowledge of the<br>Medical Officer of Health |            |                                |                    |            |            | Number of such cases removed<br>from their homes in the several<br>localities for treatment in<br>Isolation Hospital |                    |            |            |            |     |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|---------------------------------|----------|-------------------------------------------------------------------------------------------------------|------------|--------------------------------|--------------------|------------|------------|----------------------------------------------------------------------------------------------------------------------|--------------------|------------|------------|------------|-----|
|                                                                                                                                  | Last<br>Census            | Estima-<br>ted to<br>middle<br>of 1905 |                                 |          | Diphtheria                                                                                            | Scarlatina | Enteric<br>or Typhoid<br>Fever | Continued<br>Fever | Erysipelas | Scarlatina | Enteric<br>or Typhoid<br>Fever                                                                                       | Continued<br>Fever | Diphtheria | Scarlatina | Erysipelas |     |
| Grange town and Eston Grange...                                                                                                  | 5,533                     | 6,013                                  | Under 5<br>5 upwards            | ...      | ...                                                                                                   | 25         | ...                            | ...                | ...        | ...        | ...                                                                                                                  | 18                 | ...        | ...        | ...        | ... |
| Eston .. .. .                                                                                                                    | 3,811                     | 4,006                                  | Under 5<br>5 upwards            | ...      | 9                                                                                                     | 9          | 1                              | ...                | ...        | ...        | ...                                                                                                                  | 7                  | ...        | 2          | ...        | ... |
| South Bank and Branch End ..                                                                                                     | 2,459                     | 2,481                                  | Under 5<br>5 upwards            | ...      | ...                                                                                                   | 15         | 1                              | ...                | ...        | ...        | ...                                                                                                                  | 11                 | ...        | 18         | ...        | ... |
| TOTALS .. .. .                                                                                                                   | 11,803                    | 12,500                                 | Under 5<br>5 upwards            | ...      | 9                                                                                                     | 36         | 1                              | ...                | ...        | ...        | ...                                                                                                                  | 25                 | ...        | 2          | ...        | ... |
|                                                                                                                                  |                           |                                        |                                 | ...      | 14                                                                                                    | 55         | 7                              | ...                | ...        | ...        | ...                                                                                                                  | 40                 | 3          | 18         | ...        | ... |
|                                                                                                                                  |                           |                                        |                                 | ...      | 53                                                                                                    | 91         | 8                              | ...                | ...        | ...        | ...                                                                                                                  | 65                 | 3          | 20         | ...        | ... |

Table IV.—Causes of, and Ages at, Death during year 1905

| CAUSES OF DEATH                      | DEATHS IN OR BELONGING TO WHOLE DISTRICT AT<br>SUBJOINED AGES |                 |                     |                      |                       |                       |                        |
|--------------------------------------|---------------------------------------------------------------|-----------------|---------------------|----------------------|-----------------------|-----------------------|------------------------|
|                                      | All<br>Ages                                                   | Under<br>1 year | 1 and<br>under<br>5 | 5 and<br>under<br>15 | 15 and<br>under<br>25 | 25 and<br>under<br>65 | 65 and<br>up-<br>wards |
| Measles ... ..                       | 8                                                             | 1               | 6                   | ...                  | 1                     | ...                   | ...                    |
| Whooping Cough ... ..                | 2                                                             | 1               | 1                   | ...                  | ...                   | ...                   | ...                    |
| Diphtheria and Membraneous Croup     | 2                                                             | 1               | ...                 | ...                  | ...                   | ...                   | ...                    |
| Enteric Fever ... ..                 | 1                                                             | ...             | ...                 | ...                  | ...                   | 1                     | ...                    |
| Diarrhoea ... ..                     | 10                                                            | 6               | 1                   | 3                    | ...                   | ...                   | ...                    |
| Phthisis ... ..                      | 11                                                            | ...             | ...                 | ...                  | 2                     | 9                     | ...                    |
| Other Tubercular Diseases .. ..      | 12                                                            | 5               | 1                   | 3                    | 1                     | 2                     | ...                    |
| Cancer, malignant disease ... ..     | 10                                                            | ...             | ...                 | ...                  | ...                   | 9                     | 1                      |
| Bronchitis ... ..                    | 15                                                            | 7               | ...                 | ...                  | ...                   | 5                     | 3                      |
| Pneumonia ... ..                     | 31                                                            | 10              | 5                   | 1                    | 4                     | 9                     | 2                      |
| Other Diseases of Respiratory Organs | 1                                                             | ...             | 1                   | ...                  | ...                   | ...                   | ...                    |
| Alcoholism Cirrhosis of Liver ...    | 1                                                             | ...             | ...                 | ...                  | ...                   | 1                     | ...                    |
| Premature Birth ... ..               | 7                                                             | 7               | ...                 | ...                  | ...                   | ...                   | ...                    |
| Diseases & Accidents of Parturition  | 3                                                             | ...             | ...                 | ...                  | ...                   | 3                     | ...                    |
| Heart Diseases ... ..                | 9                                                             | ...             | 1                   | 1                    | ...                   | 1                     | 3                      |
| Accidents ... ..                     | 19                                                            | ...             | 1                   | 1                    | 1                     | 14                    | 2                      |
|                                      | 142                                                           | 37              | 19                  | 9                    | 9                     | 57                    | 11                     |
| All other causes ... ..              | 57                                                            | 24              | 7                   | 2                    | 1                     | 15                    | 8                      |
| All causes ... ..                    | 199                                                           | 61              | 26                  | 11                   | 10                    | 72                    | 19                     |

Summary of Table IV.

|                                              | No. of<br>Deaths |                                                    | No. of<br>Deaths |
|----------------------------------------------|------------------|----------------------------------------------------|------------------|
| I.—SPECIFIC FEBRILE, OR ZYMOTIC<br>DISEASES. |                  | <i>Brought forward</i> ...                         | 161              |
| 1. Miasmatic Diseases...                     | 13               | VI.—LOCAL DISEASES—continued ...                   | 78               |
| 2.—Diarrhœal ...                             | 10               | 5. Diseases of Urinary System                      | 5                |
|                                              | — 23             | 6. Diseases of Parturition                         | 3                |
| IV.—CONSTITUTIONAL DISEASES ...              | 45               | 11. Diseases of Integumentary<br>System ...        | 1                |
| V.—DEVELOPMENTAL DISEASES ...                | 15               |                                                    | — 87             |
| VI.—LOCAL DISEASES.                          |                  | VII.—VIOLENCE.                                     |                  |
| 1. Diseases of Nervous System                | 19               | 1. Accident or Negligence ...                      | 19               |
| 2. Diseases of Circulatory System            | 9                |                                                    |                  |
| 3. Diseases of Respiratory System            | 47               | VIII.—ILL-DEFINED AND NOT SPECI-<br>FIED CAUSES... | 10               |
| 4. Diseases of Digestive Organs              | 3                |                                                    |                  |
|                                              | — 78             |                                                    |                  |
|                                              | —                |                                                    | —                |
| <i>Carried forward</i> ...                   | 161              | TOTAL ...                                          | 199              |

TABLE I.

Vital Statistics of Whole District during 1905, and Previous Years.

| YEAR                               | Population<br>estimated<br>to Middle of<br>each year | BIRTHS |       | TOTAL DEATHS REGISTERED<br>IN THE DISTRICT |                             |             |       | NETT DEATHS<br>AT ALL AGES<br>BELONGING TO<br>THE DISTRICT |       |
|------------------------------------|------------------------------------------------------|--------|-------|--------------------------------------------|-----------------------------|-------------|-------|------------------------------------------------------------|-------|
|                                    |                                                      | No.    | Rate  | Under 1 year<br>of Age                     |                             | At all Ages |       | No.                                                        | Rate  |
|                                    |                                                      |        |       | No.                                        | Rate per<br>1,000<br>Births | No.         | Rate  |                                                            |       |
| 1895                               | 10,695                                               | 398    | 37·24 | 66                                         | ...                         | 187         | 17·48 | 187                                                        | 17·48 |
| 1896                               | 10,695                                               | 389    | 36·37 | 57                                         | ...                         | 176         | 16·45 | 176                                                        | 16·45 |
| 1897                               | 10,695                                               | 417    | 38·99 | 68                                         | ...                         | 176         | 16·45 | 176                                                        | 16·45 |
| 1898                               | 11,000                                               | 414    | 37·63 | 54                                         |                             | 195         | 17·72 | 195                                                        | 17·72 |
| 1899                               | 12,319                                               | 434    | 35·31 | 97                                         | ...                         | 258         | 20·94 | 258                                                        | 20·94 |
| 1900                               | 12,443                                               | 393    | 31·60 | 80                                         | ...                         | 240         | 19·29 | 240                                                        | 19·20 |
| 1901                               | 11,199                                               | 428    | 38·21 | 50                                         | 116                         | 161         | 14·37 | 161                                                        | 14·37 |
| 1902                               | 11,802                                               | 414    | 35·07 | 71                                         | 171                         | 201         | 17·03 | 201                                                        | 17·03 |
| 1903                               | 12,304                                               | 406    | 32·99 | 64                                         | 157                         | 194         | 15·76 | 194                                                        | 15·76 |
| 1904                               | 12,500                                               | 393    | 31·44 | 72                                         | 182                         | 204         | 16·32 | 204                                                        | 16·32 |
| Averages<br>for years<br>1895-1904 |                                                      | 408    | 34·48 | 67                                         | 156                         | 199         | 17·18 | 199                                                        | 17·18 |
| 1904                               | 12,500                                               | 392    | 31·12 | 61                                         | 156                         | 199         | 15·12 | 199                                                        | 15·12 |

Table II.—Vital Statistics in 1905 and previous 10 years.

| Year |     |     | Population<br>estimated to<br>middle of<br>each year | Births<br>registered | Deaths<br>at<br>all ages | Deaths<br>under<br>1 year |
|------|-----|-----|------------------------------------------------------|----------------------|--------------------------|---------------------------|
| 1891 | ... | ... | 10,695                                               | 336                  | 168                      | 55                        |
| 1895 | ..  | ... | 10,695                                               | 398                  | 187                      | 66                        |
| 1896 | ... | .   | 10,695                                               | 389                  | 176                      | 57                        |
| 1897 | ... | ... | 10,695                                               | 417                  | 176                      | 68                        |
| 1898 | ... | ... | 11,000                                               | 414                  | 195                      | 51                        |
| 1899 | ... | ..  | 12,319                                               | 434                  | 258                      | 97                        |
| 1900 | ... | ... | 12,443                                               | 393                  | 240                      | 80                        |
| 1901 | .   |     | 11,199                                               | 428                  | 161                      | 50                        |
| 1902 | ... | ... | 11,803                                               | 414                  | 201                      | 71                        |
| 1903 | ... | ... | 12,334                                               | 406                  | 191                      | 61                        |
| 1904 | ... | ... | 12,500                                               | 393                  | 204                      | 72                        |
| 1905 | ... | ... | 12,500                                               | 392                  | 199                      | 61                        |

Table III.—Cases of Infectious Disease notified during 1905.

| Notifiable Disease  |     |     |     | Cases notified in whole District |         |        |         |          |          |                   |
|---------------------|-----|-----|-----|----------------------------------|---------|--------|---------|----------|----------|-------------------|
|                     |     |     |     | At all<br>Ages                   | Under 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 65 | 65 and<br>up, wds |
| Smallpox            | ... | ... | ... | ...                              | ...     | ...    | ...     | ...      | ...      | ...               |
| Diphtheria          | ... | ... | ... | 53                               | 1       | 8      | 30      | 10       | 4        | ...               |
| Membranous Croup... | ... | ... | ... | ...                              | ...     | ...    | ...     | ...      | ...      | ...               |
| Erysipelas          | ... | ... | ... | 9                                | ...     | ...    | 1       | 3        | 5        | ...               |
| Scarlet Fever       | ... | ... | ... | 91                               | 36      | 49     | 5       | 1        | ..       | ...               |
| Enteric Fever       | ... | ... | ... | 8                                | 1       | ...    | ...     | 7        | ...      | ...               |
| Continued Fever     | ... | ... | ... | ...                              | ...     | ...    | ...     | ...      | ...      | ..                |
| Totals              |     |     |     | ...                              | ...     | ...    | ...     | ...      | ...      | ...               |
| Totals              |     |     |     | 161                              | 38      | 57     | 36      | 21       | 9        |                   |

## ISOLATION OF INFECTIOUS DISEASES.

D.—The Table given below shows admissions and deaths of patients at the Sanatorium during each year since the 16th day of May, 1894, to the 31st December, 1905; giving a total of 832 cases, and a death rate for the 11½ years of 3.72 per cent.

| ADMISSIONS |     |     |          |            |            |        |         |                |       | DEATHS |          |            |            |        |         |                |       |   |     |     |    |   |          |
|------------|-----|-----|----------|------------|------------|--------|---------|----------------|-------|--------|----------|------------|------------|--------|---------|----------------|-------|---|-----|-----|----|---|----------|
|            |     |     | Smallpox | Scarlatina | Diphtheria | Typhus | Enteric | Other Diseases | TOTAL |        | Smallpox | Scarlatina | Diphtheria | Typhus | Enteric | Other Diseases | TOTAL |   |     |     |    |   |          |
| 1894       | ... | ... | ...      | 2          | 1          | ...    | 4       | ...            | 7     | ...    | ...      | ...        | ...        | ...    | 1       | ..             | 1     |   |     |     |    |   |          |
| 1895       | ... | ... | ...      | 148        | ..         | ...    | 8       | 2              | 158   | ...    | 1        | ...        | ..         | 1      | ...     | ...            | 2     |   |     |     |    |   |          |
| 1896       | ... | ... | ...      | 94         | ...        | ...    | 6       | ...            | 103   | ...    | 1        | ...        | ...        | 1      | ...     | ...            | 2     |   |     |     |    |   |          |
| 1897       | ... | ... | 1        | 24         | 1          | ...    | 13      | 1              | 40    | ...    | ...      | ...        | ...        | 1      | 2       | ...            | 3     |   |     |     |    |   |          |
| 1898       | ... | ... | 24       | 3          | ...        | ..     | 18      | ...            | 45    | 6      | ..       | ...        | ...        | 4      | ...     | ...            | 10    |   |     |     |    |   |          |
| 1899       | ... | ... | ...      | 6          | ..         | ...    | 10      | 2              | 18    | ...    | ...      | ...        | ...        | 3      | ...     | ...            | 3     |   |     |     |    |   |          |
| 1900       | ... | ... | ...      | 52         | ...        | ...    | 12      | 4              | 69    | ...    | 2        | ..         | ...        | 2      | ...     | ...            | 4     |   |     |     |    |   |          |
| 1901       | ... | ... | ...      | 98         | ...        | ...    | 16      | 1              | 115   | ...    | ...      | ...        | ...        | 2      | ...     | ...            | 2     |   |     |     |    |   |          |
| 1902       | ... | ... | ...      | 31         | ...        | ...    | 7       | 9              | 47    | ...    | 1        | ..         | ...        | ..     | ...     | ...            | 1     |   |     |     |    |   |          |
| 1903       | ... | ... | 2        | 61         | 6          | ...    | 3       | 2              | 74    | ...    | ...      | ...        | ...        | 1      | ...     | ...            | 1     |   |     |     |    |   |          |
| 1904       | ... | ... | ...      | 59         | 11         | ...    | 1       | 1              | 72    | ...    | 1        | ...        | ..         | 1      | ...     | ...            | 2     |   |     |     |    |   |          |
| 1905       | ... | ... | ...      | 65         | 20         | ...    | 3       | ...            | 88    | ..     | ..       | ...        | ...        | ...    | ...     | ...            | ...   |   |     |     |    |   |          |
|            |     |     |          |            |            |        |         |                |       | 29     | 743      | 49         | ...        | 101    | 22      | 832            | 6     | 6 | ... | ... | 17 | 2 | 31=3.72% |

GEORGE C. H. FULTON, M.B., C.M.,

*Medical Officer to Sanatorium.*

## THE SANATORIUM (32 BEDS).

This Institution continues to be appreciated in your district; 161 cases of infectious disease were notified, and 88 isolated, This is a good percentage. Twenty cases of Diphtheria were admitted to the hospital. They were injected with Antitoxin at once, and no deaths occurred. Of the 88 cases admitted during

the year. no deaths occurred, to have 65 cases of Scarlet Fever, 20 cases of Diphtheria, and 3 cases of Enteric Fever admitted to a public Institution during the year and treated, and not a single death occurring is a very satisfactory result—as many cases on admission looked hopeless: of course the nursing of Fever patients is the all important part, and the good result reflects great credit on the Matron, (Miss Frood), and her nursing staff for assiduity and care in nursing and watching complications. The New Disinfecting Chamber and Mortuary will be most useful, especially the former, but the latter is useful when required and this we hope will only be at long intervals.

I am, Gentlemen,

Your obedient servant.

GEORGE C. H. FULTON, M.B.,

*Medical Officer.*

### COMMON LODGING HOUSE.

This Lodging House has been frequently inspected during the year, and it appears to be well managed and conducted. Wash-hand basins, etc., are now provided for the inmates. All my suggestions to benefit the inmates have been attended to. Mr. Taylor appears always willing to do what he can to help the Sanitary Authorities. Number of beds, 84.

### FARMS.

ESTON GRANGE FARM, MESSRS. BOLCKOW, VAUGHAN & Co.—54 Cows.—This farm is very well kept; all the byres are now well lighted and ventilated, and the water supply is improved. This farm is over stocked for the air space provided.

WRIGHTSON'S, ESTON LOW FARM.—Here we have good farm buildings, but the farmer is evidently afraid of fresh air, as the ventilating holes in the byre are all stuffed with straw; but no milk is sent away from this farm. It is not necessary to do much, only point the mistake out to the farmer. Ventilation improved since last visit.

BACON'S, CHURCH LANE.—4 Cows.—This farm is now better lighted and ventilated, and the surroundings greatly improved. The Dairy is improved.

RICHARDSON'S, LODGE FARM, ESTON.—7 Cows.—Byres kept in fair condition. Dairy now satisfactory and well kept, every part clean.

RICHARDSON'S, JUBILEE ROAD.—4 COWS.—Proper Dairy. Everything advised has been done since my last visit.

YEATES, JUBILEE ROAD, ESTON. — 9 COWS.—The byres are only fairly satisfactory, but are well kept, and they try to do what is right so far as the houses will permit. Dairy unsatisfactory.

BINGLEY.—3 COWS. — Byre satisfactory. Dairy 95 California : unsatisfactory, but promised to carry out my requirements. This done.

KYME, 147 CALIFORNIA.—No Cow kept at present.

ALLENBY, THOMAS, JUBILEE ROAD, ESTON.—1 Cow.—Dairy not very satisfactory ; now put right.

ARMSTRONG, WM., 17 JUBILEE ROAD, ESTON.—10 COWS.—Byre greatly improved. Dairy improved. Water supply from hill.

INGLEDEW, WM., CHURCH LANE, ESTON.—6 COWS.—Good byre accommodation, and the dairy very satisfactory, everything in order.

### MILK SELLERS.

EVISON, CHARLES, BOLCKOW STREET, ESTON.—19 gallons daily from Hicks, Lackenby ; all milk taken round. Milk in shop in covered vessel.

SANDERSON, 67 WILLIAM STREET, ESTON.—Dairy in yard, now satisfactory ; milk taken round.

GALE, SARAH, 8 HENRY STREET, SOUTH BANK.—4 gallons daily from Skipper.—Satisfactory.

DOBSON, M., 114 NORMANBY ROAD, SOUTH BANK, — Milk in covered vessels, fairly well stored 4 gallons daily, owns cows at Lackenby.

ROSS, W., 6A MIDDLESBROUGH ROAD, SOUTH BANK. — Everything in order for a small sale. 1 gallon daily from Mr. Douglas, Normanby.

FLEMING, N. R., CROSS BECK, NORMANBY.—Satisfactory.

JOHNS, M., 19 WHITWORTH ROAD, GRANGETOWN. — 30 gallons daily supply from Eston Grange Farm. The milk is stored in proper vessels, which are kept thoroughly clean, but the shop isn't a suitable one for milk selling, when vegetables, fruit, fish, etc. are also sold. This cannot be remedied.

ANGIERS, ROBT., 49 LAING STREET, GRANGETOWN.—17 gallons daily from Mr. Collin, Low Lackenby. This dairy is much better kept ; the warning given has produced a good result. Milk only kept in this pantry now. Getting slack again ; give another warning, again improved.

PORTER, ROBERT, 46 WHITWORTH ROAD. 3 gallons daily from Angier's, Grangetown. Everything in order.

PORTER, ROBERT, 6 WHITWORTH ROAD.—2 gallons daily from Angier's, Grangetown. Everything in order.

WILKINSON, A., 104 LAING STREET, GRANGETOWN.—35 gallons daily from Eston Grange Farm. Milk kept in back kitchen which is scrupulously clean — the place is small, but it is well lighted and ventilated.

LIGHTFOOT, ANN, 36, WHITWORTH ROAD, GRANGETOWN.—1½ gallons daily from Wilkinson's. Milk in proper vessels and covered. Papers sold in this shop.

CARMODY, W., 2, WHITWORTH ROAD, GRANGETOWN.—2 gallons daily from Eston Grange Farm. Milk in proper vessels. Shop satisfactory.

### SLAUGHTER HOUSES.

All licensed slaughter houses have been inspected, and are in fairly good order. Of course I should like to see a public slaughter house for the district (abbatoir).

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES  
 AND HOMEWORK.

I.—INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

| Premises                                                                                                                           | Number of                             |                                               |              |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------|--------------|
|                                                                                                                                    | Inspections                           | Written Notices                               | Prosecutions |
| FACTORIES (including Factory Laundries)<br>WORKSHOPS (including Workshop do.)<br>WORKPLACES ... ..<br>HOMEWORKERS' PREMISES ... .. | February, 1905<br>and at<br>intervals | Defects remedied<br>on verbal<br>Instructions | None         |
| TOTAL ... ..                                                                                                                       | Several                               | None                                          | None         |

2.—DEFECTS FOUND.

| Particulars                                                    | Number of Defects                                                                                                                                    |                       |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                                                | Found                                                                                                                                                | Remedied              |
| NUISANCES UNDER THE PUBLIC HEALTH ACTS—<br>Overcrowding ... .. | 1                                                                                                                                                    | Yes, on Verbal Notice |
| Sanitary accommodations ... ..                                 | Yes. Public Health Acts Amendment<br>Act, 1890, adopted.<br>The Sanitary accommodation in the<br>various works and workplaces are satis-<br>factory. |                       |
| OFFENCES UNDER THE FACTORY & WORKSHOP ACT ...                  | None                                                                                                                                                 | ..                    |
| TOTAL ... ..                                                   | 1                                                                                                                                                    | 1                     |

3.—OTHER MATTERS.

| Class                                                   | Number |
|---------------------------------------------------------|--------|
| MATTERS NOTIFIED TO H.M. INSPECTORS OF FACTORIES ... .. | None   |
| UNDERGROUND BAKEHOUSES (S. 101) ... ..                  | None   |
| HOMEWORK ... ..                                         | None   |
| WORKSHOPS ON THE REGISTER AT THE END OF 1905.           |        |
| 3 Bakehouses ... ..                                     | 3      |
| 8 Joiners' Shops ... ..                                 | 8      |
| 2 Plumbers and Tinsmiths ... ..                         | 2      |
| 3 Blacksmiths ... ..                                    | 3      |
| 1 Saddler ... ..                                        | 1      |
| 16 Butchers ... ..                                      | 16     |
| 10 Boot and Shoe Makers and Repairers ... ..            | 10     |
| 2 Tailors ... ..                                        | 2      |
| 19 Dressmakers, Milliners, &c. ... ..                   | 19     |
| 1 Laundry ... ..                                        | 1      |
| 65 TOTAL NUMBER OF WORKSHOPS ON REGISTER .. ..          | 65     |

Most of the workshops were measured, and the cubic capacity calculated. The various conditions as to ventilation, heating, cleanliness, &c., were enquired into, and all defects promised to be remedied. During the year frequent inspections have been made. Outworkers—these are difficult to obtain, but we have now a fairly complete list.

I have again endeavoured, however feebly, to place before you my views appertaining to the public health of the district. My duties :—“to enquire into and ascertain, by such ways and means as were at my disposal, the causes, origin, and distribution of diseases within the Eston district, and to ascertain to what extent the same have depended on conditions capable of removal or investigation.”

I have pointed out from time to time the difficulties with which I have to contend. We are proud of our material progress, prosperity, and commercial position, and point with pride to our low death rate. This is no doubt due to your care and expenditure on sanitary matters.

I have the honour to remain,

Gentlemen,

Your obedient servant,

GEORGE C. H. FULTON, M.B., C.M.,

*Medical Officer of Health.*

January, 1906.

TO THE CHAIRMAN AND MEMBERS OF THE ESTON URBAN DISTRICT COUNCIL,

GENTLEMEN,

I respectfully lay before you my Annual Report for the year ending December 31st, 1905.

### NOTICES.

Statutory Notices requiring the abatement of Nuisances, caused by various Sanitary defects and offences have been served during the year as follows, viz:—

|                                       |     |     |     |     |     |
|---------------------------------------|-----|-----|-----|-----|-----|
| Blocked Branch Drains...              | ... | ... | ... | ... | 72  |
| Defective Closet Pans ...             | ... | ... | ... | ... | 395 |
| "    "    Doors ...                   | ... | ... | ... | ... | 42  |
| Back Yards roofed over                | ... | ... | ... | ... | 2   |
| Insanitary and Defective Ashpits      | .   | ... | ... | ... | 8   |
| Yard Sinks liberated ...              | ... | ... | ... | ... | 2   |
| Defective Cellar Drainage             | ... | ... | ... | ... | 1   |
| Objectionable Pig Food Receptacle     | ... | ... | ... | ... | 1   |
| Defective Yard Pavement               | ... | ... | ... | ... | 1   |
| Defective Closets and Pan Receptacles | ..  | ... | ... | ... | 10  |
| Total ...                             |     |     |     |     | 534 |

### WORK DONE UNDER VERBAL NOTICE.

A considerable number of minor defects and nuisances in connection with Yard Drains and Property have been detected and amended under verbal instructions.

### UN SOUND MEAT, &c.

Although a careful look-out has been kept during the year for diseased and unsound meat, fruit and other food intended for human consumption, it has not been found necessary in any case to take any serious action.

## INSPECTIONS.

The Slaughter Houses, Common Lodging House, Cowsheds, Dairies and Milkshops have been visited and inspected and, on the whole, have been found in good and wholesome condition.

Inspections have also been made in all cases of complaint and reported upon, or otherwise dealt with, and the causes of complaint remedied or removed.

## FACTORIES AND WORKSHOPS ACTS, 1901.

During the year the various workshops and workplaces throughout the district have been visited and inspected and in all cases have found the sanitary arrangements to be in a satisfactory condition.

I append a list of Workplaces, revised to date :—

## BAKEHOUSES.

J. Holmes and J. Rodgers, 27 Whitworth Road (cellar, not in use).  
 Mrs. Johns, 19 Whitworth Road, Grangetown.  
 Mr. Pickering, 28 Whitworth Road, Grangetown.  
 E. Porter, 46 Whitworth Road, Grangetown.

## DRESSMAKERS, MILLINERS, &amp;c.

Miss Brittain, 13 Munby Street, South Bank.  
 Miss Hughes, 17 Middlesbrough Road, South Bank.  
 Miss Davy, 5 Cheetham Street, Grangetown.  
 Mrs. Wilson, 61 Victoria Road, Grangetown.  
 Miss Skilbeck, 17 Victoria Road, Grangetown.  
 Mrs. Sherrington Brown, 20 Whitworth Road, Grangetown (Stocking Knitting).  
 Mr. H. Wilkinson, 45 Whitworth Road, Grangetown.  
 Mrs. Oke, West Street, Eston.  
 Miss E. Lovern, 41 Guisbrough Street, Eston.  
 Miss L. Bailey, 17 South Street, Eston.  
 Mrs. Fowler, 116 California, Eston.  
 Miss M. Shaw, 25 Gladstone, Street, Eston.  
 Miss L. Clark, High Street, Eston and 4 Bolekow Road, Grangetown.  
 Miss A. Davies, 19 William Street, Eston.  
 Miss M. Clements, 14 William Street, Eston.

Miss E. Lawery, 10 William Street, Eston.  
 Miss Cox, 23 Gladstone Street, Eston.  
 Miss Rand, 90 Normanby Road, South Bank (Milliner).  
 Miss M. Wright, 8 Gladstone Street, Eston.

#### TAILORS.

Messrs. Osborne, High Street, Eston.  
 Mr. H. Goss, 4 Middlesbrough Road, South Bank.

#### BOOT AND SHOE MAKERS AND REPAIRERS.

Mr. P. Quin, 50 Vaughan Street, Grangetown.  
 Mr. Trainer, 43 Stapylton Street, Grangetown.  
 Middlesbrough Co-operative Society, Wood Street, Grangetown.  
                   "                  "                  Normanby Road, South Bank.  
                   "                  "                  High Street, Eston.  
 Mr. T. Moore, High Street, Eston.  
 Mr. F. Atterton, 31 Gladstone Street, Eston.  
 Messrs. Robinson & Sons, Whitworth Road, Grangetown.  
 Mr. J. Farrer, 47 Vickers, Street, Grangetown.  
 Mr. A. Hancock, 2 Middlesbrough Road, South Bank.

#### JOINERS, UNDERTAKERS, &C.

Messrs. Bolckow, Vaughan & Co., Eston Grange Farm (Grangetown)  
 Mr. Butcher, Grangetown.  
 Mr. C. E. Morris, Bolckow Road, Grangetown (Gas Engine and Machines).  
 Mr. T. Calvert, Jubilee Road, and High Street (Old Temperance Hall),  
                   Eston (Gas Engines and Machines).  
 Mr. T. Wilkinson, Gladstone Street, Eston (Picture Frames and  
                   Photographer).  
 Mr. M. W. Bearcroft, Old Eston.  
 Mr. W. Ingledew, Junr., Church Lane, Eston  
 Mr. C. G. Bennett, Normanby Road, South Bank.

#### PLUMBERS AND TINSMITHS.

Mr. T. Carter, Hewley House, Eston.  
 Mr. J. Keat, William Street, Eston.

#### LAUNDRIES.

The Cleveland Laundry, Normanby Road, South Bank.

## BLACKSMITHS.

Mr. C. Snowdon, High Street, Old Eston.

Mr. M. Johnson, Roberts Street.

Messrs. Bolckow, Vaughan & Co, Ltd., Eston Grange Farm, Grangetown.

## SADDLERS.

Messrs. Bolckow, Vaughan & Co. Ltd., Eston Mines, Eston.

## BUTCHERS AND PORK BUTCHERS

Mr. O. O. Whittingham, High Street, Eston.

Mr. Ceeney, Whitworth Road, Grangetown.

Mr. W. Dunn,       "       "       "       (Gas Engine).

Mr. J. Carr,       "       "       "       "

R. Coates       "       "       "

Messrs. Eastmans Ltd., Whitworth Road, Grangetown.

Mr. Gibson, Whitworth Road, Grangetown.

Middlesbrough Co-operative Society, Wood Street, Grangetown.

Mr. Swales, Guisbro Street, Eston.

Mr. R. Wallace, Bolckow Street, Eston.

Mr. F. Hammerton, High Street.

Mr. C. Forster, High Street and West Street, Eston.

Mr. Fulton, Middlesbrough Road, South Bank.

Middlesbrough Co-operative Society, Normanby Road, South Bank.

Middlesbrough Co-operative Society, High Street, Eston.

## SCAVENGING.

The Scavenging in the Council's District is still—judging from the comparative absence of complaint—very satisfactory.

## FIRE BRIGADES.

Three fires have occurred during the year, viz:—2 at Eston and 1 at Grangetown. none of them however were of a serious nature.

During the year the two Brigades have been supplied with Uniform Trousers.

## DISINFECTING.

During the year 161 cases of infectious disease have been notified being an increase of 26 over the year 1904.

The various diseases notified are as follows:—

|                     |     |     |     |     |     |                 |
|---------------------|-----|-----|-----|-----|-----|-----------------|
| Scarlet Fever       | ... | ... | ... | ... | ... | 91              |
| Enteric and Typhoid | ... | ... | ... | ... | ... | 7               |
| Continued Fever     | ... | ... | ... | ... | ... | 1               |
| Diphtheria          | ... | ... | ... | ... | ... | 50              |
| Erysipelas          | ... | ... | ... | ... | ... | 9               |
| Membraneous Croup   | ..  | ... | ... | ... | ... | 3               |
| Total               |     |     |     |     |     | <hr/> 161 <hr/> |

88 Patients removed to Sanatorium.

In all cases, as usual after the removal of the patients to the Sanatorium, the houses have been carefully and thoroughly disinfected, and in the case of patients being treated at home, the usual precautions have been taken, and on recovery the houses fumigated.

Limewash, brushes and disinfectants have been (as in the past) supplied gratuitously to all applicants.

## SEWERAGE.

The whole of the Sewers have been regularly attended to and flushed and maintained in a thoroughly efficient state.

The Channel of the main outfall sewer from Grangetown Station to the outlet on to the Foreshore has for the first time for many years been thoroughly cleaned out, with the result that the adjoining marshy land has been drained and the nuisance caused by the smell arising therefrom has been reduced to a minimum, if not completely eradicated.

## PUBLIC WORKS IMPROVEMENTS.

1. New Urinal on Main Road, Eston.
2. Back Street. between Normanby Road and Miles Street, South Bank. re-paved.
3. West Side of Market Street, South Bank, re-flagged, curbed and channelled.
4. Portion of North Side of Beacham Street, South Bank, re-flagged.
5. New Footpath formed in Church Lane, Eston, opposite Cemetery Road.
6. Guide and Mile Posts (provided by County Council) erected on Main Road, near Jubilee Road and Church Lane, Eston.
7. New Sanitary Pipe Culverts in place of Old Rubble Culvert under Cemetery Road and Church Lane, Eston.
8. Repair and re-metalling of portion of Middlesbrough Road, between Normanby Road and Grangetown Subway.
9. South Side of Normanby Road, South Bank, footpath widened, re-flagged, curbed and channelled, opposite Co-operative Stores.
10. New Mortuary, Disinfecting House, Store House built in brick, and alteration and improvements to Laundry at Sanatorium.
11. Incandescent Gas Installation for Street Lighting, from Normanby Road, South Bank, to New Subway, Grangetown.
12. The following Public footpaths have been put into a good state of repair :—
  - Footpath from Cemetery Road to main road, Eston.
  - Station Road, Grangetown.
  - Station Footpath, Eston.
  - Eston Road Footpaths (portions).
13. The Carriageways of the main road and other public roads and streets, including Eston Road and Sailors' Trod Footpath have been repaired and re-metalled.

## PRIVATE IMPROVEMENTS.

A new street at Eston named Edwards Street has been formed, flagged, channelled and drained and is now complete ; this work has been carried out by the owners.

## PROSECUTIONS.

During the year there have been two prosecutions :—

- 1.—Chimney on fire at Grangetown.
- 2.—Overcrowding Vehicle whilst plying for hire, Grangetown.

In each case a fine was imposed.

## PLANS APPROVED.

1. Baptist Church, South Bank.
2. Alteration to Urinal, Alexandra Hotel.
3. Two Dwelling-houses off High Street, Eston.
4. Alterations to premises, 35 Whitworth Road, Grangetown.
5. Three new shop fronts for Mr. Kendra, Whitworth Road, Grangetown.
6. New shop front, 24 and 26 Bolckow Street, Eston.
7. New street and two houses, Church Lane, Eston.
8. Alteration to back premises, corner of Bolckow Street and Imeson Street, Eston.
9. Two houses, High Street, Old Eston (near Beech Terrace).
10. Joiner's Shop, Grangetown.
11. Additions to Wesleyan Sunday Schools, Grangetown.
12. Alterations to cottages, new shop, Guisbro Street, Eston.
13. Twelve Houses, Church Lane, Eston.
14. Six houses Gladstone Street, Eston.
15. Alterations to Shop, corner of Normanby Road.
16. Awning in front of Mr. Tarbits shop, Whitworth Road, Grangetown.
17. Alterations inside "Meadowcroft," Eston.
18. Twenty-six houses, Alexander Road, Grangetown.
19. Addition to Hewley house, Church lane, Eston.
20. South Tees Electric Power Station, Grangetown.
21. Drill Hall at Eston (Military).
22. Fifteen houses, off Church Lane.
23. One house, Edward Street, Eston.

## WATER COURSES.

All open Water Courses in the district have been periodically cleaned out, and are in a satisfactory condition.

## OLD ESTON SEWERAGE.

During the past year many and serious complaints have been received of the stench arising from the open sewer between the outlet of Hewley Street drain and the Black Cottage in Eston lane. The Council recognising the conditions and the possible consequences, have unanimously decided to remove this—probably the only serious flaw, in the sanitary condition of the district. Plans, Specifications, &c. have been prepared, Tenders obtained, and the sanction of the Local Government Board is now alone required for laying down a new Sewer for the purpose of removing the sewerage from the open Water Course and conveying it by means of sanitary pipes to the outfall.

## NEW SUBWAY, GRANGETOWN.

The work in connection with the New Subway and approaches to Grangetown was commenced in February, and proceeded in a most satisfactory manner, and notwithstanding the many difficulties to contend with, the whole work except the fixing of Wrought Iron Railings was completed by the end of November, being three months within the contract period. Since this completion we have had several very heavy rainfalls, but no flooding at the subway or in connection with this work, and although I have known heavier rainfalls, I feel sure that under the old order of things the Subway would have been flooded.

This work which has been carried out by the Council at a cost somewhat below £11,000 has, so far as I can hear, given every satisfaction to the general public and ratepayers throughout the district, and I have no doubt that its erection will have very considerable influence in the future developement of this portion of the Council's District.

I am, Gentlemen,

Your obedient servant,

C. McDERMID.

